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- (71) Applicant (for all designated States except US): **PROTEOME SYSTEMS INTELLECTUAL PROPERTY PTY LTD** [AU/AU]; Unit 1, 35-41 Waterloo Road, North Ryde, NSW 2113 (AU).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **DUFF, Janice, Lee** [AU/AU]; 14 Beulah Street, Kingsford, NSW 2032 (AU). **BREEN, Edmond, Joseph** [AU/AU]; 6 Gooraway Place, Berowra, NSW 2082 (AU). **HOPWOOD, Femia** [AU/AU]; 8 Marconi Street, Winston Hills, NSW 2153 (AU). **MUELLER, Martin** [DE/DE]; Sanschurrepfad 39, 12557 Berlin (DE).
- (74) Agent: **F B RICE & CO**; 605 Darling Street, Balmain, NSW 2041 (AU).
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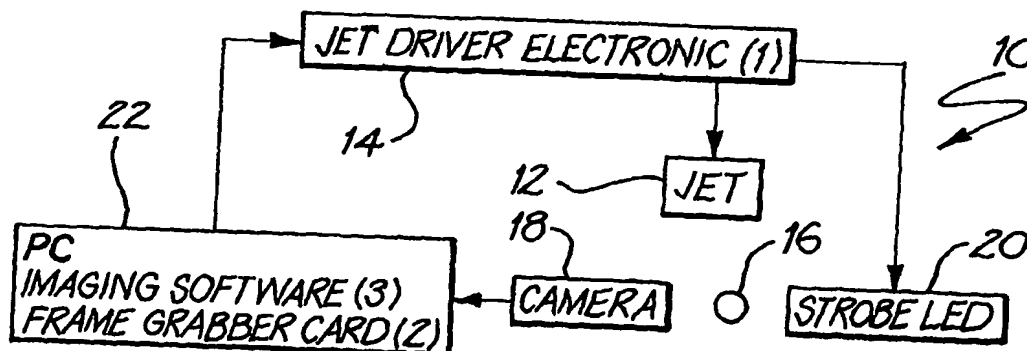
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(54) Title: "SYSTEM AND METHOD FOR AUTOMATICALLY SETTING OPERATING PARAMETERS FOR MICRO-DISPENSING DEVICES"



(57) Abstract: A process for automating the setting of parameters for a micro jetting system for dispensing reagents and a jetting system and control system arranged to perform the process of the present invention are disclosed. The parameters which are adjusted by the system, are voltage level and pulse duration. Typically, the process works by cycling through a plurality of combinations of the two parameters, imaging droplets produced by each of those parameters and analysing those images to detect whether a droplet is formed, and if so, whether that droplet is suitable. In a particularly preferred approach, a statistical approach is used to generate a range of appropriate parameter combinations and an associated likelihood of each of those parameter combinations being acceptable. In particular, the selection of parameter combinations starts with the statistically most popular occurrence of voltage and pulse duration and then alternates either side of the most popular occurrence with the next most popular occurrence which has not yet been used, until an acceptable droplet is produced.



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